

### **ABSTRACT**

Traces routed through a computer depiction of a routing area of an electronics system comprise a plurality of connected nodes. Forces are assigned to the nodes, and the nodes are moved in accordance with the forces. The forces may be based on such things as the proximity of the nodes to each other and to obstacles in the routing area. This tends to smooth, straighten and/or shorten the traces, and may also tend to correct design rule violations.